

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-329494

(43)Date of publication of application : 30.11.1999

(51)Int.Cl.

H01M 10/40
C07C317/08
C07C317/12

(21)Application number : 10-132829

(71)Applicant : UBE IND LTD

(22)Date of filing : 15.05.1998

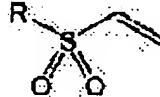
(72)Inventor : HAMAMOTO SHUNICHI
ABE KOJI
TAKAI TSUTOMU

(54) ELECTROLYTIC SOLUTION FOR LITHIUM SECONDARY BATTERY AND LITHIUM SECONDARY BATTERY USING SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a lithium secondary battery excellent in battery characteristics such as cycle characteristics, electrical capacity, and preservation characteristics of the battery.

SOLUTION: As this electrolytic solution for a lithium secondary battery, an electrolytic solution having an electrolyte dissolved in a nonaqueous solvent is provided that contains a vinyl sulfone derivative expressed by the following general formula, (where, R is an alkyl group having the number of carbon atoms of 1 to 12, an alkenyl group having the number of carbon atoms of 1 to 12, or a cycloalkyl group having the number of carbon atoms of 3 to 6.), and a lithium secondary battery using this is also provided.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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